

MODEL LUT-ATS-D (EPC-D-F-ATS) INSTALLATION

! IMPORTANT SAFEGUARDS !

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. This product can be used with LED, ballast, tungsten, and general use loads.
2. Make sure all connections are in accordance with the National Electrical Code and local regulations.
3. To reduce the risk of electric shock, disconnect both normal and emergency power supplies before servicing.
4. This product is intended to be used to control indoor and outdoor located loads.
5. An unswitched AC power source is required (120-277VAC).
6. Do not install near gas or electric heaters.
7. Do not attempt to service a sealed Emergency Lighting Transfer Switch. When malfunctioning, return to the manufacturer: LVS, Inc. 2555 Nicholson Street, San Leandro, CA 94577.
8. The use of accessory equipment is not recommended by the manufacturer and may cause unsafe condition.
9. Do not use this product for other than its intended use.
10. Servicing should be performed by qualified service personnel.
11. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

SAVE THESE INSTRUCTIONS

5-Year Limited Warranty

LVS, Inc. warrants to the original purchaser/user for the published warranty period from the date of shipment that should LVS instruments or equipment prove defective by reason of improper workmanship or material, LVS will repair or replace the same equipment without charge. This warranty does not cover defects or malfunctions arising from improper installation, operation or repair, or neglect, accident, or abuse. LVS will honor its warranty provided the equipment has not been physically damaged or improperly installed or connected. To obtain warranty/repair, the defective product should be shipped freight prepaid within the warranty period to the address below. To the extent permitted by applicable law, all warranties extending beyond repair or replacement as described above are disclaimed, including the implied warranties of merchantability and fitness for a particular purpose. Where applicable law prohibits disclaimers or the implied warranties of merchantability and fitness; those warranties are limited to 12 months from date of shipment. LVS provides a 90 day money back guarantee if equipment does not perform in accordance with LVS published specifications. The liability of LVS and its agents under all warranties is limited to repair and replacement as described herein and under no circumstances shall there be liability for any other kind of loss, damage, or labor, either consequential or for injury to person or property or otherwise.

Electrical Specifications

120-277V Sensing Input
16 Amp Ballast Load Rating (120-277V)
16 Amp General Use Rating (120-277V)
1920W Incandescent Load Rating (120V)
4432W Incandescent Load Rating (277V)

UL1008 Listed (usUL/cUL)



Mechanical Specifications

Mounts in 4-11/16" Junction Box with Extension Box
UL94-5VA Plastic Flame Rating
Shipping Weight: 22 oz Color : White
Temperature: 0°C-60°C (32°F - 140°F)
Flush Mounted Size: 6" x 6" x 1/2"
Body Size: 4-1/4" x 4-1/4" x 2-1/4"

Gary Gilgur
EM Supply LLC



(973) 650-0853
Sales@EM-Supply.com
www.EM-Supply.com

Application

In the past, all emergency lights were left on 24 hours a day to meet safety codes. Now you can specify & install a **UL1008 Listed Emergency Lighting Transfer Switch EPC-D-F-ATS**, which converts up to 16A of normal light fixtures to approved emergency lights. During normal operation, the EPC-D-F-ATS feeds designated emergency lights from the normal power circuit and allows them to switch or dim with the same control as your normal lights. During a utility power interruption, the EPC-D-F-ATS feeds designated emergency lights from the emergency power circuit, at full brightness, regardless of switch or dimmer position.

Intended for use with 2 WIRE, 3 WIRE, and 4 WIRE DIMMABLE LOADS (includes line voltage and 0-10V dimming, as well as ON/OFF Loads).

Three testing methods:

Integral Test Switch provides convenient anytime testing.

Automatic Test Option provides automatic and monthly self-testing.

Fire Alarm/Dry Contact Option allows emergency lighting activation from fire, security alarm or remote test switch.

Four safety and reliability interlocks:

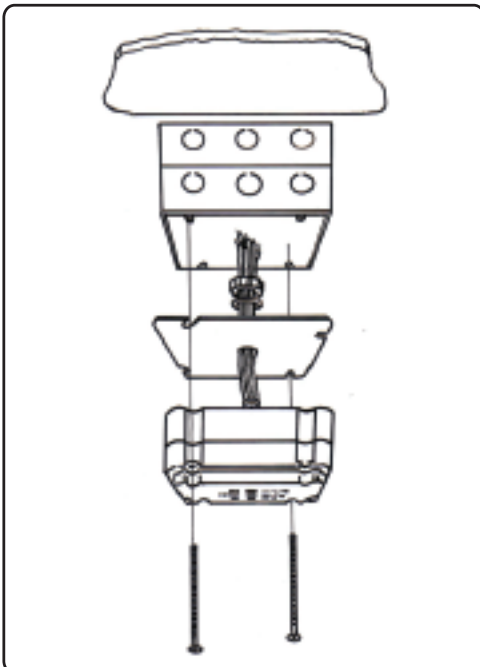
Voltage Sensing Interlock senses back-feed or erroneous voltage on load terminals during transfer through optically isolated sensors.

Time Delay Interlock ensures break-before-make transfer operation. Reduces or eliminates phase-phase arcing risk.

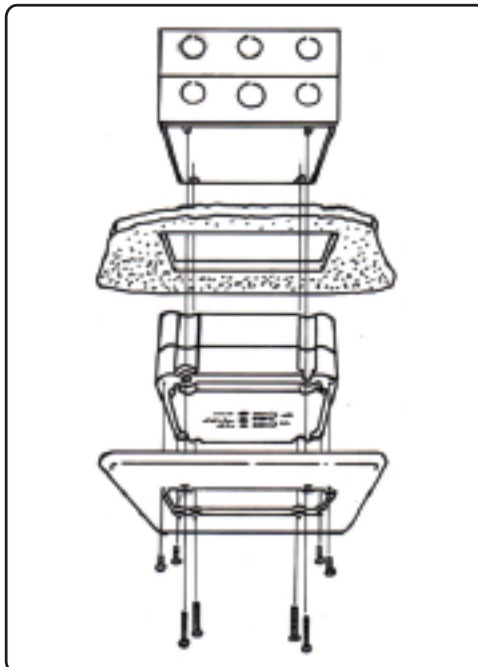
Relay Position Detection detects relay malfunction (such as welding) and alerts microprocessor to stop transfer to prevent phase-phase shorting across relays.

Mechanical Interlock unique contact arrangement of relays prevents normal and emergency sources from being connected, even if all other interlocks fail.

Surface Mount Installation



Flush Mount Installation



EPC-D-F-ATS Includes:
Flush adaptor ring
Plastic 1/2" lock nut

Suggested Box:
(Not included)
4-11/16" (2-1/8" deep)
and 2-1/8" Extension Box

For plenum applications:
Suggested Box: 6x6 or
8x8 box with blank cover
(Not Included)

Plenum rated test switch
is available upon request

Method of Operation

The model EPC-D-F-ATS is a single-zone silent transfer switch for emergency lighting applications. Versatile, small, and cost effective, and designed to work with all modern dimming types including 2-wire and 3-wire line voltage, 0-10V and DALI low voltage. EPC-D-F-ATS is compatible with all lighting types including LED, fluorescent, incandescent. The EPC-D-F-ATS allows emergency and normal lighting to be dimmed from the same dimmer during normal operation. During emergency operation (power interruption), the EPC-D-F-ATS will transfer the emergency lighting to the emergency power source and bypass all dimming controls, bringing the emergency lighting to 100% (full) brightness, regardless of dimmer level. A momentary test switch on the front cover allows the user to simulate a power interruption when pressed.

Installation

In order to install device in accordance with national/local code requirements, a qualified electrician should review & understand the installation instructions. Check voltage & current requirements. Verify & lock out circuit breakers on both regular (utility) power & 24 hour emergency generator or inverter circuit. Install a self-adhesive 2" x 3" caution label in each fixture or load controlled by an EPC-D-F-ATS unit cautioning that this load is supplied from 2 different power sources, regular & emergency. Review wiring diagram & connect wires, one at a time, in accordance with the numeric identification.

Initial Testing

1. Turn on normal power circuit breaker, utility power GREEN LED should be illuminated.
2. Turn on 24/7 emergency power circuit breaker, emergency power RED LED should be illuminated.
3. Do not turn dimmer system on yet. Press test switch on EPC-F-ATS. Designated emergency fixtures should come on at full brightness. Alternatively, you may turn off the normal power breaker to test the EPC-D-F-ATS.
4. With normal power breaker on, operate the dimmer control and observe if all fixtures turn on, including designated emergency fixtures. Load BLUE LED should be illuminated when load is on.

Final Testing

1. Coordinate a convenient time to turn off the main circuit breaker with building occupants.
2. With main circuit breaker off, emergency circuits will be powered by the generator, inverter, or UPS.
3. Emergency luminaires connected to EPC-D-F-ATS should be ON at full brightness, regardless of dimmer system setting. This is the intended function of LVS Model EPC-D-F-ATS and conforms to UL1008, NEC, and NFPA101 requirements.

CAUTION

This light fixture is powered by 2 circuits: the 24-hour nightlight / emergency circuit must be turned off in addition to the regular power branch circuit breaker before servicing this light fixture.

Notes for use:

USE CU WIRE ONLY

Utiliser des fils en cuivre uniquement

Suitable for total system transfer.

Input: 120-277VAC 50-60Hz

Unit Power Consumption: 7W Max

Continuous Load Current not to exceed 100% of switch rating

120-277 volt 16 Amp Ballast

120-277 volt 16 Amp Tungsten

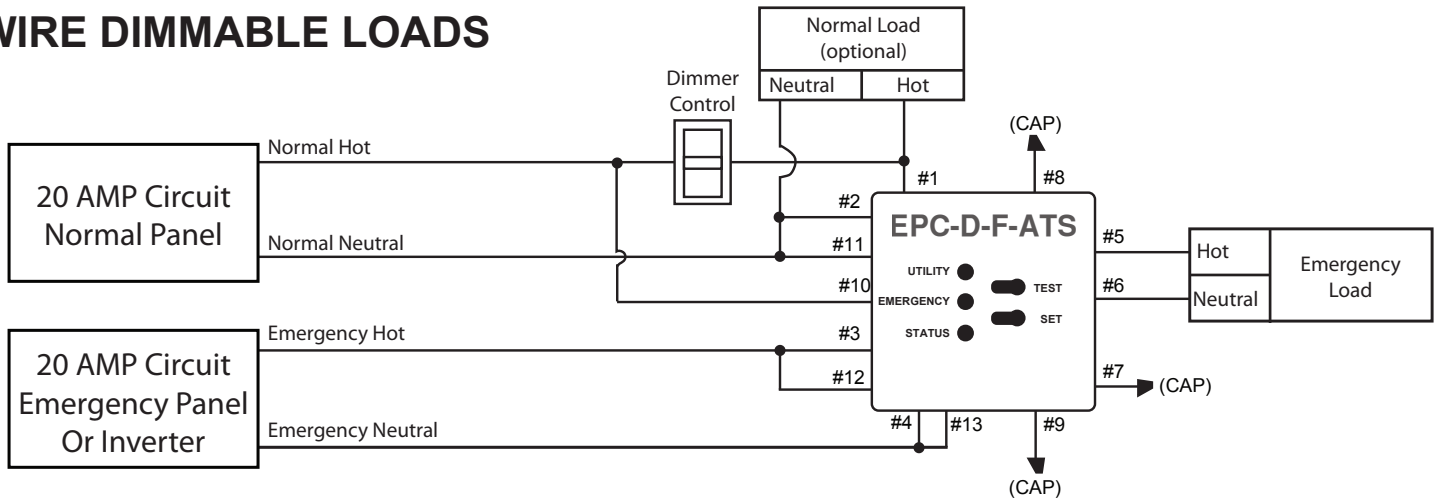
120-277 volt 16 Amp General Use

When protected by a fuse of the specific manufacturer, type, and ampere rating as marked below, this transfer switch is suitable for use in circuits capable of delivery 5000A at 277V.

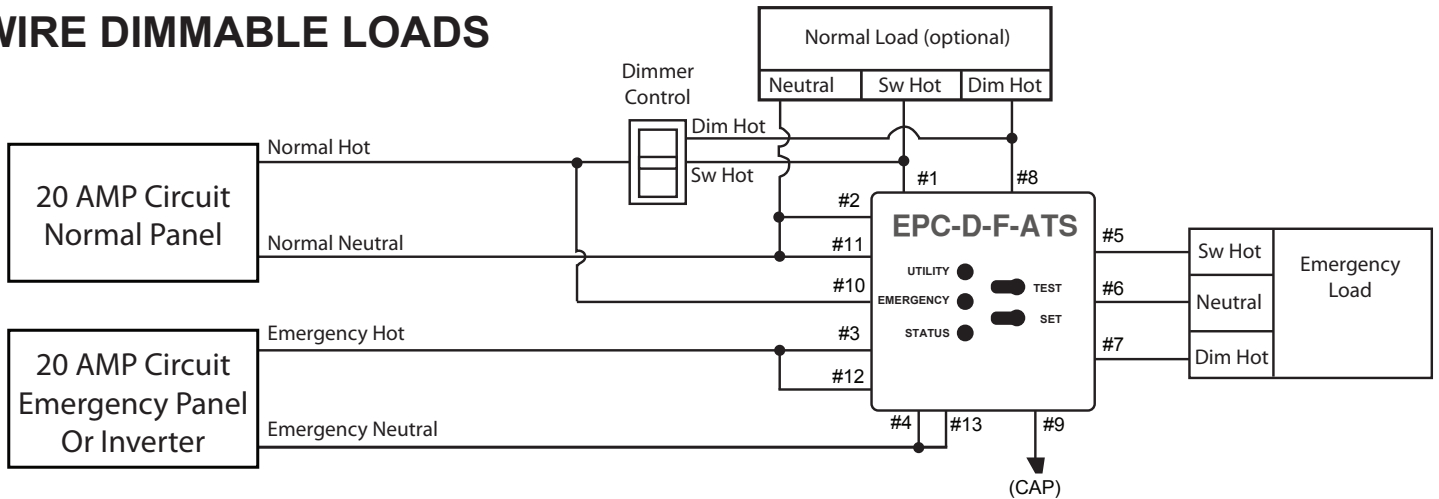
Littelfuse	KLK-30	30 Amps
Littelfuse	KLKR-30	30 Amps

EPC-D-F-ATS WIRING DIAGRAMS

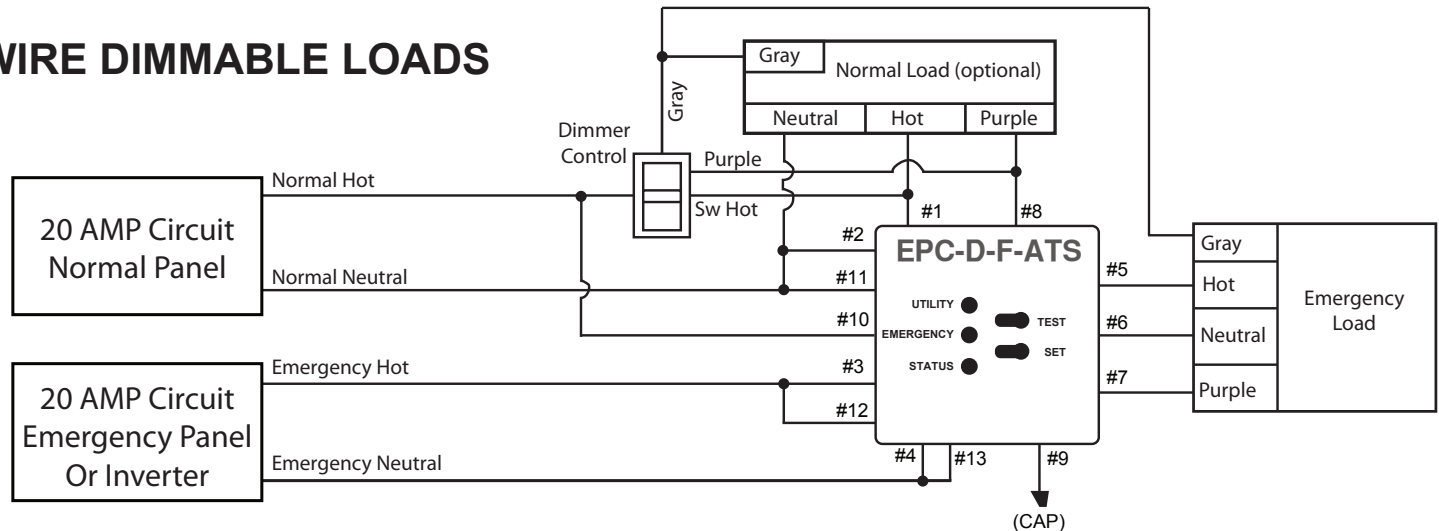
2-WIRE DIMMABLE LOADS




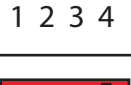

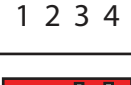

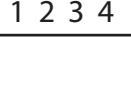

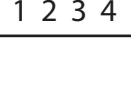




3-WIRE DIMMABLE LOADS



4-WIRE DIMMABLE LOADS

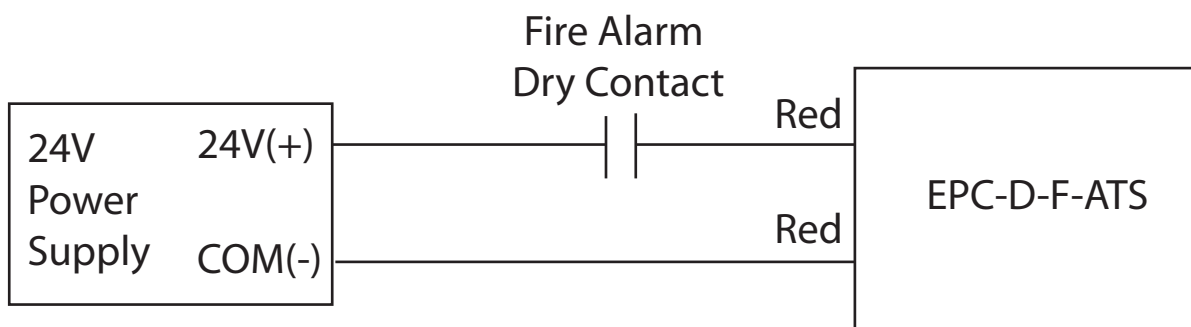


EPC-D-F-ATS DIP SWITCH SETTINGS

<p>ON </p> <p>OFF </p> <p>1 2 3 4</p> <p>DEFAULT (replaces EPC-D-F)</p>	<p>No Monthly Automatic Test No Fire Alarm/Remote Test Switch</p>	<p>No Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/C)</p>	<p>ON </p> <p>OFF </p> <p>1 2 3 4</p>
<p>ON </p> <p>OFF </p> <p>1 2 3 4</p>	<p>YES Monthly Automatic Test No Fire Alarm/Remote Test Switch</p>	<p>YES Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/C)</p>	<p>ON </p> <p>OFF </p> <p>1 2 3 4</p>
<p>ON </p> <p>OFF </p>	<p>No Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/O)</p>	<p>YES Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/O)</p>	<p>ON </p> <p>OFF </p>

Monthly Automatic Test feature will test EPC-D-F-ATS for 40 seconds every 25 days and record result on microprocessor. Test results may be played back by holding test button for 3 seconds. Once green LED flashes once, release test button. Every green flash signals a passed test, every red flash signals a failed test. Annual testing for 90 minutes is still required and recommended.

Fire Alarm/Remote Test switch input is optional. Cut red jumper wire and connect 24V DC power to it through a dry contact. For N/C type, when contact is closed EPC-D-F-ATS will transfer to emergency source. For N/O type, when contact is open EPC-D-F-ATS will transfer to emergency source.



Note: EPC-D-F-ATS red wires are polarity independent